DVD Player / Recorder DVDR3460

User Manual	4
使用說明書	56
使用说明书	108

Thank you for choosing Philips.

Need help fast?

Read your Quick Use/Start Guide and/or User Manual first for quick tips that make using your Philips product more enjoyable. If you have read your instructions and still need assistance, you may access our online help at ***www.philips.com/welcome.***

R RW Dual Media

PHILIPS

Laser safety

This unit employs a laser. Due to possible eye injury, only a qualified service person should remove the cover or attempt to service this device.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

NOTE:
PICTURES SHOWN MAYBE DIFFERENT BETWEEN COUNTRIES.

The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on apparatus.

CAUTION

Use of controls or adjustments or performance of procedures other than herein may result in hazardous radiation exposure or other unsafe operation.

Due to the inconsistency of disc formats provided by various disc manufacturers, your DVD system/ player/recorder may require a playability enhancement or upgrade. As DVD technology advances, these enhancement will become common and will be easy to complete.
Go to www.philips.com/support for software upgrade.

'CONSUMERS SHOULD NOTE THAT NOT ALL HIGH DEFINITION TELEVISION SETS ARE FULLY COMPATIBLE WITH THIS PRODUCT AND MAY CAUSE ARTIFACTS TO BE DISPLAYED IN THE PICTURE. IN CASE OF 525 OR 625 PROGRESSIVE SCAN PICTURE PROBLEMS, IT IS RECOMMENDED THAT THE USER SWITCH THE CONNECTION TO THE 'STANDARD DEFINITION' OUTPUT. IF THERE ARE QUESTIONS REGARDING OUR TV SET COMPATIBILITY WITH THIS MODEL 525p AND 625p DVD PLAYER, PLEASE CONTACT OUR CUSTOMER SERVICE CENTER.'

Copyright notice
"The making of unauthorized copies of copy-protected material, including computer programmes, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes."

LASER

Type	Semiconductor laser InGaAlP (DVD) AlGaAs (CD)
Wave length	658 nm (DVD) 784 nm (CD)
Output Power	30 mW (DVD+RW write) 1.0 mW (DVD read) 0.4 mW (CD read)

For Customer Use:

Read carefully the information located at the bottom or rear of your DVD Recorder and enter below the Serial No. Retain this information for future reference.

Model No. DVD PLAYER/ RECORDER 3460

Serial No. _____

1_dvdr3460-97_um_en_26851a.indd 2 2007-08-27 1:04:30 PM

Index

English ----------4

中文(繁體) ---------- 56

中文(简体) ---------- 108

English

中文(繁體)

中文(简体)

This product incorporates copyright protection technology that is protected by US patents. Use of this copyright protection technology must be authorised by Macrovision, and is intended for home and other limited viewing uses only, unless otherwise authorised by Macrovision. Reverse engineering or disassembly is prohibited.

U.S. Patent Number: 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

DivX®, DivX Certified, and associated logos are trademarks of DivX, Inc and are used under license.

i.Link is also known as 'FireWire' and 'IEEE1394'. This connection is used for the transfer of high bandwidth digital signals as used by digital video (DV) camcorders. It carries all audio and video signals via a single cable.

1_dvdr3460-97_um_en_26851a.indd 3 2007-08-27 1:04:30 PM

English

Table of Contents

General

Care and Safety Information 6
- Setup precautions 6
- Cleaning discs 6
- About recycling 6

Product Information 7
- Introduction 7
- Accessories supplied 7
- Region codes 7
- Copyright notice 7

Product Overview

Remote Control 8
- Using the remote control 10

Main Unit 11

Connections

Step 1: Basic Recorder Connections 12
- Connecting the antenna cables 12
- Connecting the video cable 13
- Connecting the audio cables 14

Step 2: Optional Connections 15
- Connecting to a Cable Box or Satellite Receiver 15
- Connecting to a VCR or other similar device 16
- Connecting to a VCR and Cable Box/Satellite Receiver 17
- Connecting a camcorder to the front jacks 18

Step 3: Installation and Setup 19
- Finding the correct viewing channel 19
- Initial recorder setup 19

Recording

Recording 22
- Discs for recording 22
- Recording settings 22
- Manual recording 24
- Instant time-off recording 24
- About timer recording 25
- Timer recording 25
- Changing/ Deleting a timer recording 26

1_dvdr3460-97_um_en_26851a.indd 4 2007-08-27 1:04:30 PM

Table of Contents

English

Playback

Playback **27**
- Playable discs 27
- Starting disc playback 27

Additional Playback Features **31**
- Changing to another title/chapter/track 31
- Pausing playback / slow motion play 31
- Searching forward/ backward 31
- Repeat play 32
- Repeating a specific segment (A-B) 32
- Changing subtitle language 32
- Changing audio soundtrack language 32
- Switching camera angles 33
- Time search 33
- Resume playback from the last stopped point 33

Edit Recordings

Edit Recordings **34**
- About editing recordable DVDs 34
- Disc menu index screen 34
- Erase title(s) 34
- Protect/Unprotect title 35
- Rename title 35
- Dividing title (DVD±RW only) 36
- Erase part of a title (DVD±RW only) 36

Other Information

System Menu Options **37**
- Accessing the System Menu 37
  - Tuner settings 38
  - Disc settings 40
  - Playback settings 42
  - Video settings 45
  - Audio settings 46
  - System settings 47

Software Upgrade **48**
- Installing the latest software 48

Troubleshooting **49**

Frequently Asked Questions **52**

Specifications **53**

Display panel symbols/ messages **54**

Glossary **55**

1_dvdr3460-97_um_en_26851a.indd 5 2007-08-27 1:04:30 PM

Care and Safety Information

English

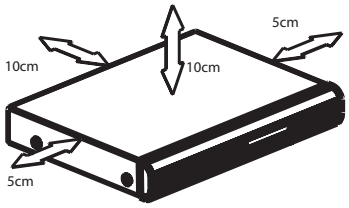
CAUTION!
High voltage! Do not open the device. You run the risk of getting an electric shock.

The machine does not contain any user-serviceable parts. Please leave all maintenance work to qualified personnel.

Setup precautions

Finding a suitable location
– Place the set on a flat, hard and stable surface. Do not place the set on a carpet.
– Do not position the set on top of other equipment that might heat it up (e.g., receiver or amplifier).
– Do not put anything above or under the set (e.g., CDs, magazines).
– Install this unit near the AC outlet and where the AC power plug can be reached easily.

Space for ventilation
– Place the apparatus in a location with adequate ventilation to prevent internal heat build up. Allow at least 10 cm (4") clearance from the rear and the top of the set and 5 cm (2") from the left and right to prevent overheating.

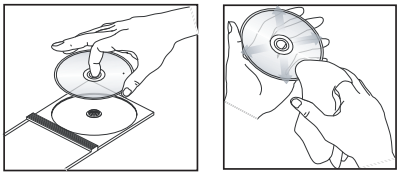


Avoid high temperature, moisture, water and dust
– Apparatus must not be exposed to dripping or splashing.
– Do not place any object or items that can damage the apparatus (e.g., liquid filled objects, lighted candles).

Cleaning discs

Some problems occur (frozen picture, sound disruptions, picture distortions) because the disc is dirty. To avoid these problems, discs should be cleaned on a regular basis.

To clean a disc, use a micro fibre cleaning cloth and wipe the disc from the centre to the edge in a straight line.



CAUTION!
Do not use solvents such as benzene, thinner, commercially available cleaners, or anti-static sprays intended for analogue discs.

Since the optical unit (laser) of the recorder operates at a higher power than regular DVD or CD players, cleaning CDs intended for DVD or CD players may damage the optical unit (laser). Therefore, refrain from using a cleaning CD.

About recycling

These operating instructions have been printed on non-polluting paper. This electronic equipment contains a large number of materials that can be recycled. If you are disposing of an old machine, please take it to a recycling centre. Please observe the local regulations regarding disposal of packaging materials, exhausted batteries, and old equipment.

1_dvdr3460-97_um_en_26851a.indd 6 2007-08-27 1:04:30 PM

Introduction

Your Philips recorder allows you to record TV programs or copy camcorder recordings to a DVD±RW or DVD±R and play pre-recorded DVDs. The recordings you make on the recorder will play on DVD players and DVD-ROM drives. The DVD±R discs have to be finalized before they can be played back on other DVD players.

Before you start using this recorder, complete the basic connections and set-up in three easy steps.

Step 1: Basic recorder connections

Step 2: Optional connections for other devices

Step 3: Basic installation and set-up

Please take time to read this user manual before using your recorder. It contains important information and notes regarding the operations of the recorder.

Helpful Hints:
– If you have questions or if problems come up during operation, please see the chapter 'Troubleshooting'.
– If you need further assistance, please call the customer support service for your country. The corresponding telephone numbers and email addresses are given in the guarantee booklet.
– Refer to the type plate on the rear or bottom of the product for identification and supply ratings.

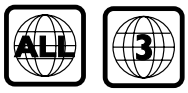
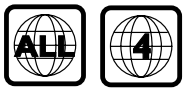
Accessories supplied

– Remote control and batteries
– RF antenna cable
– Audio/video cable
– Quick Start Guide

Region codes

DVD films are usually not released at the same time in all regions of the world, thus all DVD players are keyed to a specific region code.

The regional code is shown on the back panel of this device. If the DVD is marked with a different region code, it cannot be played back on this device.

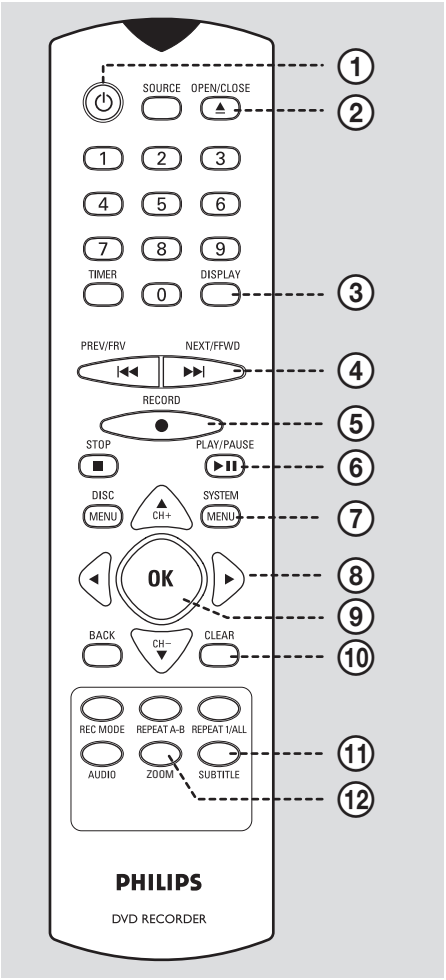
Region	DVD that can be played
Asia Pacific, Taiwan, Korea	
Australia, New Zealand	

Copyright notice

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offence. This equipment should not be used for such purposes.

1_dvdr3460-97_um_en_26851a.indd 7 2007-08-27 1:04:31 PM

Remote Control



① ⏻
– Turns on the recorder or switches to standby mode.

② **OPEN/CLOSE ▲**
– Opens/closes the disc tray.

③ **DISPLAY**
– Displays/removes the on-screen display.

④ **PREV/FRV ⏮, NEXT/FFWD ⏭**
– Skips to previous or next chapter/track.
– Press and hold to make a fast forward/ fast reverse search.

⑤ **RECORD ●**
– Starts recording the current TV channel or the current video input source.
– Press repeatedly to set up a One Touch Recording at 30, 60 or 90 minutes interval.

⑥ **PLAY/PAUSE ⏯**
– Starts/pauses playback.
– Pauses a recording.

⑦ **SYSTEM-MENU**
– Enters/exits the system setup menu.

⑧ ◀ ▶ : Cursor keys for moving to the left/right.
▲▼ : Cursor keys for moving up/down or changing the recorder's TV tuner channel.

⑨ **OK**
– Confirms an entry or selection.

⑩ **CLEAR**
– Clears the title name entry while in title editing mode.

⑪ **SUBTITLE**
– Selects a DVD subtitle language.

⑫ **ZOOM**
– Enlarges a picture on the TV screen during playback

1_dvdr3460-97_um_en_26851a.indd 8 2007-08-27 1:04:31 PM

English

⑬ **SOURCE**
– Selects the recorder's input source (Tuner, CAM, EXT1, EXT2 or DV).

⑭ **Numeric keypad**
– Selects a chapter/track number to play.
– Selects the recorder's preset TV tuner channel.

⑮ **TIMER**
– Enters/exits the timer recording menu.

⑯ **STOP ■**
– Stops playback/recording.

⑰ **DISC MENU**
– Access DVD disc menu.
– Access VCD disc menu when PBC is turned on.

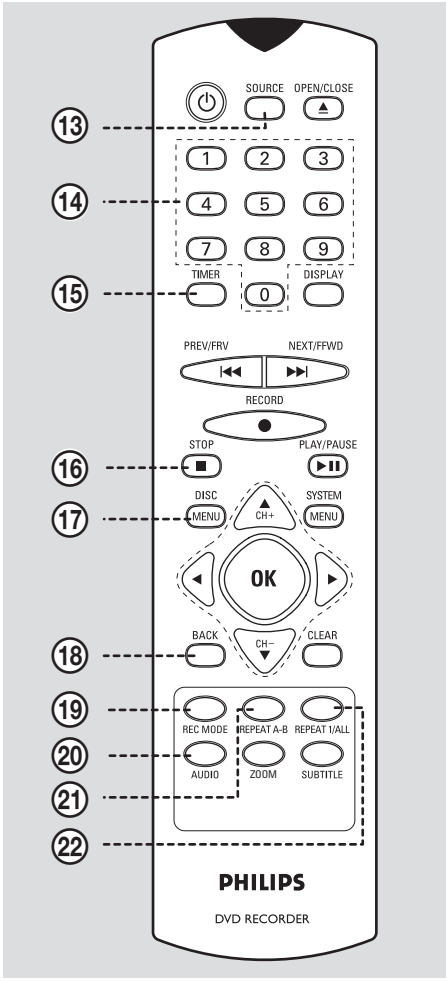
⑱ **BACK**
– Returns to the previous menu of a video CD (VCD) or some DVDs.

⑲ **REC MODE**
– Toggles between recording modes : HQ, SP, LP, EP or SLP.
This determines the quality of the recording and the amount/length of time you can record on a DVD±R/±RW.

⑳ **AUDIO**
– Selects an audio language/channel.

㉑ **REPEAT A-B**
– Repeats a specific section on a disc.

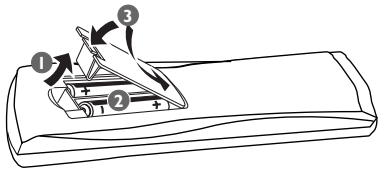
㉒ **REPEAT 1/ALL**
– Toggles between repeat playback modes of one track/title or all tracks/titles.



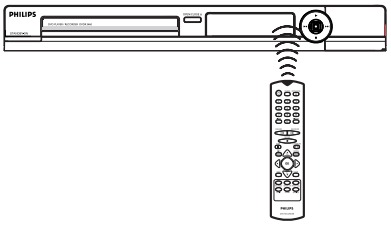
1_dvdr3460-97_um_en_26851a.indd 9 2007-08-27 1:04:31 PM

Remote Control (continued)

Using the remote control

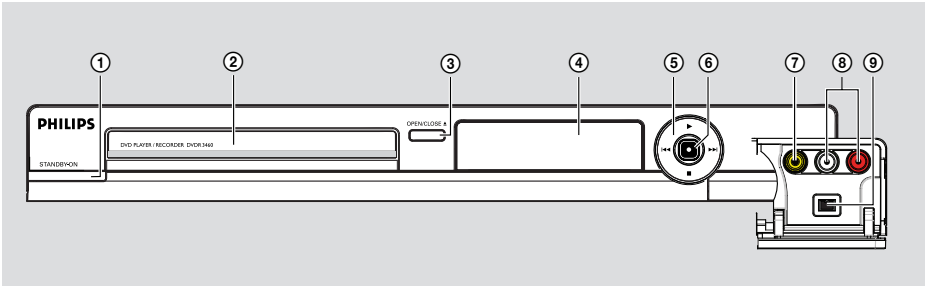


1. Open the battery compartment.
2. Insert two batteries of type R03 or AAA, following the indications (+ −) inside the compartment.
3. Close the cover.
4. Point the remote control directly at the remote sensor (iR) on the front panel and select the desired function.



CAUTION!
– Remove batteries if they are exhausted or if the remote control is not to be used for a long time.
– Do not mix batteries (old and new or carbon and alkaline, etc).
– Batteries contain chemical substances, so they should be disposed of properly.

1_dvdr3460-97_um_en_26851a.indd 10 2007-08-27 1:04:31 PM



① STANDBY-ON
– Turns on the recorder or switch to standby mode.

② Disc tray

③ OPEN/CLOSE ⏏
– Opens/closes the disc tray.

④ System display panel
– Shows information about the current status of the recorder.

⑤ ⏮ (PREV) / ⏭ (NEXT)
– Go to the previous/next chapter or track. Press and hold to make a forward/ reverse search.

▶ (PLAY)
– Starts/pauses playback.
– Pauses a recording.

■ (STOP)
– Stops playback/recording.

⑥ ● (RECORD)
– Starts recording the current TV channel or the current video input source.
– Press repeatedly to set up a One Touch Recording at 30, 60 or 90 minutes interval.

Jacks behind the flap

Flip down the door on the right hand corner.

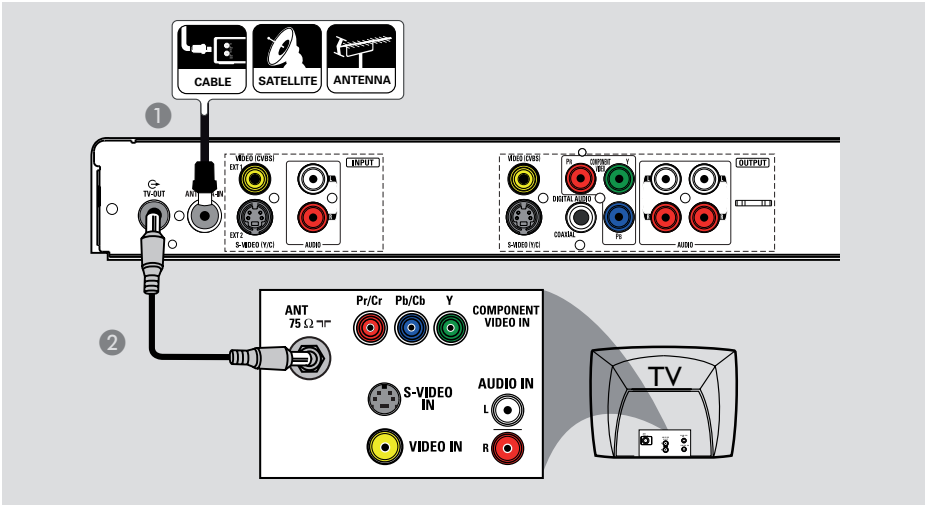
⑦ VIDEO
– Video input for camcorders or video recorders.
Press **SOURCE** on the remote control to select 'CAM' in order to view the input source.

⑧ L/R AUDIO
– Audio input for camcorders or video recorders.

⑨ DV IN
– Input for digital camcorders or other suitable devices using this connector.
Press **SOURCE** on the remote control to select 'DV' in order to view the input source.

1_dvdr3460-97_um_en_26851a.indd 11 2007-08-27 1:04:31 PM

Step 1: Basic Recorder Connections



Connecting the antenna cables

These connections enable you to watch and record TV programs using the recorder. If the antenna signal is connected via a VCR, Cable Box or Satellite Receiver, ensure that these devices are turned on in order to watch or record the cable programs.

- **If you want to connect to a VCR and/or Cable Box/Satellite Receiver**, see the chapter "Step 2 : Optional Connections" for the complete connections to your TV.

1 Connect the existing Antenna/Cable TV signal (or from the Cable Box/Satellite Receiver {RF OUT or TO TV}) to the **ANTENNA-IN** jack on the recorder.

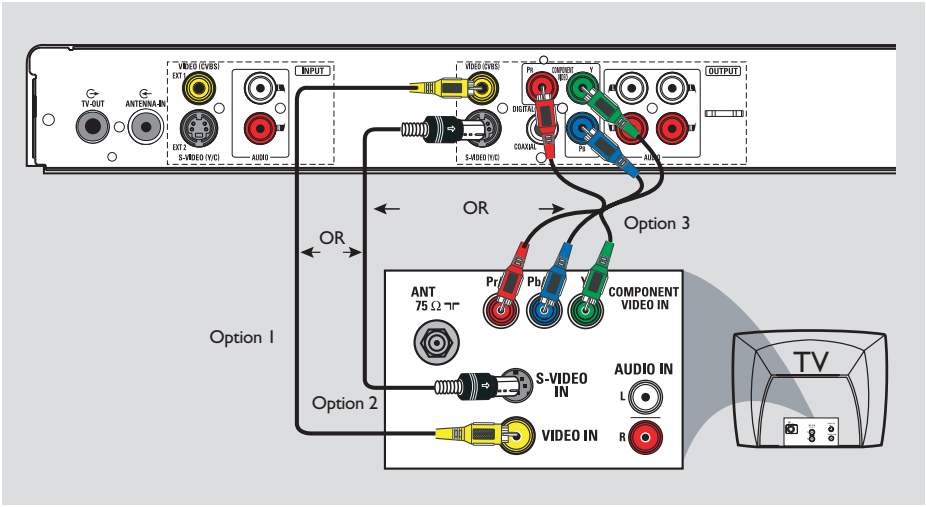
2 Use an RF antenna cable to connect **TV-OUT** jack on the recorder to the antenna input jack on your TV (VHF/ UHF RF IN).

Helpful Hint:
– Depending on how you have currently connected your TV channel (directly from an off-air antenna or Cable box or VCR), you will have to disconnect some of the cables before you make the above connection.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

1_dvdr3460-97_um_en_26851a.indd 12 2007-08-27 1:04:31 PM

Step 1: Basic Recorder Connections (continued)



Connecting the video cable

This connection enables you to view the disc playback from the recorder. You only need to choose **one** of the options below to make your video connection.

Note: Audio connection is required in order to hear the sound, see the next section "Connecting the audio cables".

Option 1: Using a Composite video (CVBS) cable

- Use a composite video cable (yellow plug) to connect the **CVBS OUT** jack on the recorder to the video input jack (or labelled as A/V In, Video In, Composite or Baseband) on the TV.

Option 2: Using an S-Video cable

- Use an S-video cable (not supplied) to connect the **S-VIDEO (Y/C) - OUTPUT** jack on the recorder to the S-Video input jack (or labeled as Y/C or S-VHS) on the TV.

Option 3: Using a Component (Y Pb Pr) cable

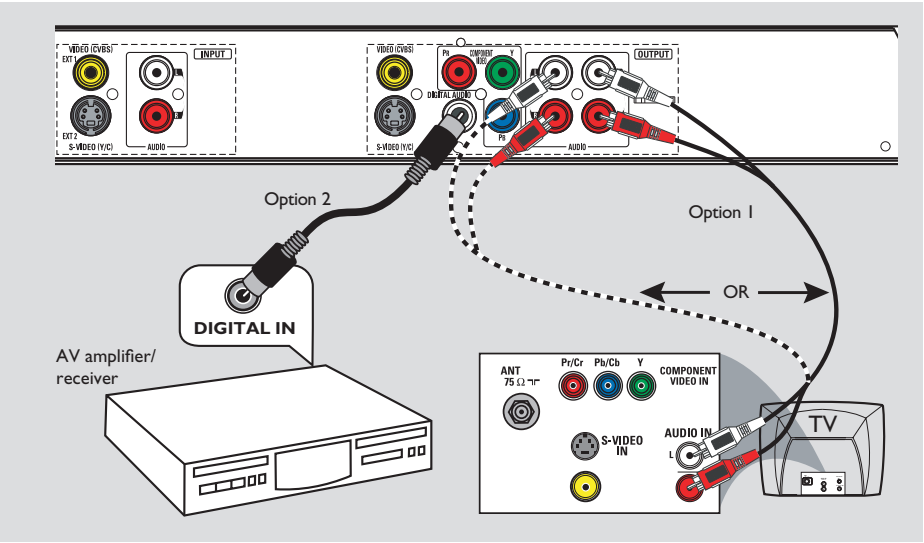
1. Use the component video cable (red/blue/green - not supplied) to connect the **Y PB PR -OUTPUT** jacks on the recorder to the corresponding component video input jacks (or labeled as Y Pb/Cb Pr/Cr or YUV) on the TV.
2. If your TV accepts Progressive Scan signal, see the chapter "System Menu Options – Video Settings – Progressive Scan" for detailed Progressive Scan set-up.

IMPORTANT!
The progressive scan video quality is only available through a Y PB PR connection and a progressive TV is required. It is strongly advised to complete the recorder installation first, before enabling the progressive scan feature.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

1_dvdr3460-97_um_en_26851a.indd 13 2007-08-27 1:04:31 PM

Step 1: Basic Recorder Connections (continued)



Connecting the audio cables

This connection enables you to listen to the sound.

Option 1: Using an audio cable

You can connect the recorder to a two channel stereo system or receiver in order to enjoy the stereo sound system.

- Use an audio cable (red/white plugs) to connect the **AUDIO-L/R** jacks to one of the following devices with the same input jacks.
  – a stereo system (for example, TV or mini system).
  – a receiver with two channel analogue stereo.

Option 2: Using a coaxial cable

You can connect the recorder to an AV amplifier/receiver with a digital multichannel sound decoder in order to enjoy multichannel surround sound.

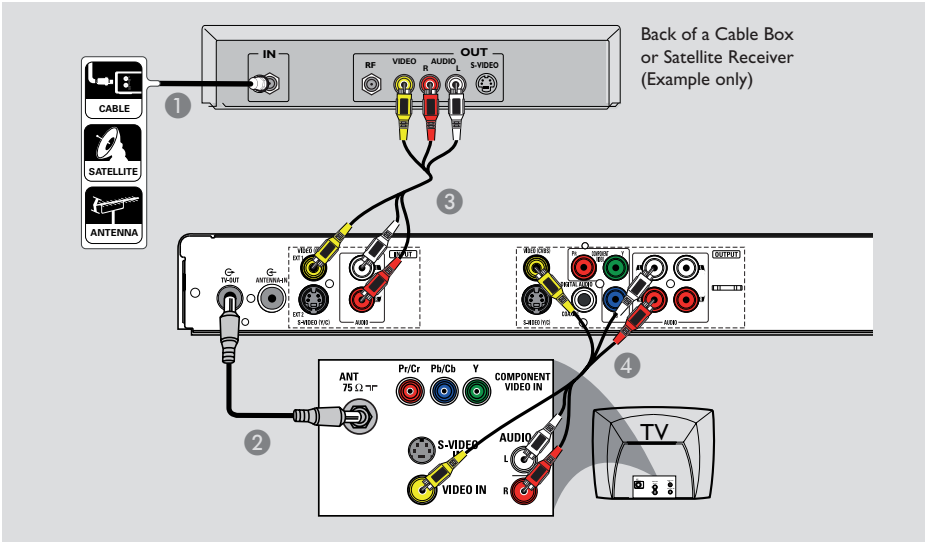
- Use a coaxial cable (not supplied). Connect the **COAXIAL (DIGITAL AUDIO OUT)** jack on the recorder to the digital input of the receiver/amplifier.

  Before you start operating, set the digital audio output settings accordingly (see the chapter "System Menu Options – Audio settings – Digital Output").

  If the audio setting does not match your stereo's capabilities, the stereo may produce a strong, distorted sound or no sound at all.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

1_dvdr3460-97_um_en_26851a.indd 14 2007-08-27 1:04:31 PM



Connecting to a Cable Box or Satellite Receiver

Option 1

If your Cable Box/Satellite Receiver has only an antenna output jack (RF OUT or TO TV),

see the section "Step 1: Basic Recorder Connections – Connecting the antenna cables" for the complete connections to your TV.

Option 2 (see the above illustration)

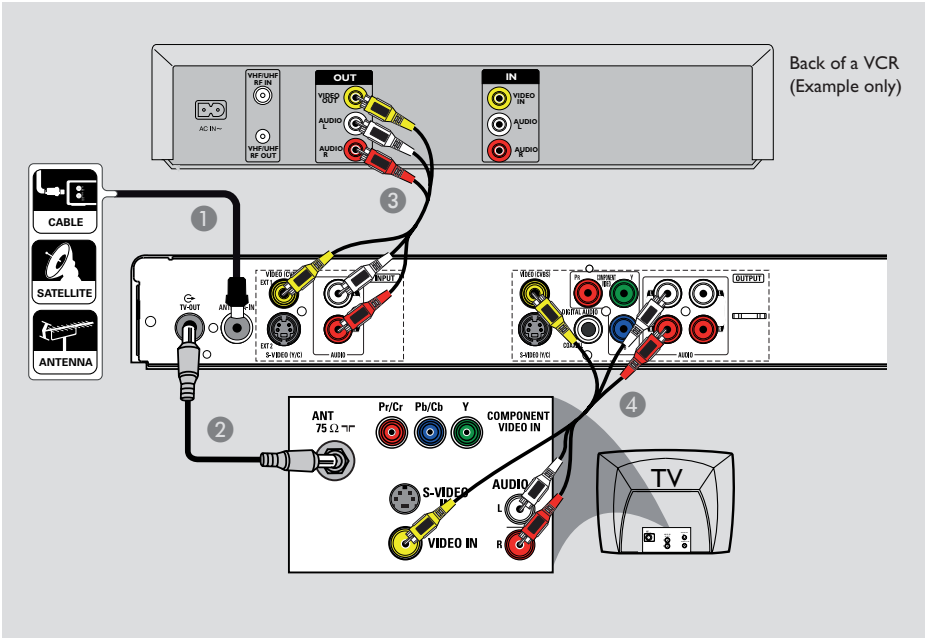
If your Cable Box/Satellite Receiver has video/audio output jacks,

1. Keep the existing antenna connection from the Antenna/Cable TV to the Cable Box/Satellite Receiver.
2. Use another RF antenna cable to connect the **TV-OUT** jack on the recorder to the antenna input jack on your TV (VHF/UHF RF IN).
3. Use the audio/video cables to connect the **VIDEO/AUDIO INPUT** on the recorder to the matching VIDEO/AUDIO output jacks on the Cable Box/Satellite Receiver.
4. Use the audio/video cables to connect the **VIDEO/AUDIO OUTPUT** on the recorder to the matching VIDEO/AUDIO input jacks on the TV.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

1_dvdr3460-97_um_en_26851a.indd 15 2007-08-27 1:04:31 PM

Step 2: Optional Connections (continued)



Connecting to a VCR or other similar device

This connection enables you to record from video tape to a DVD±R/±RW and allows the VCR to be used for playback.

IMPORTANT!
Your new recorder can replace the VCR for all your recording needs. Just unplug all the connections to your VCR.

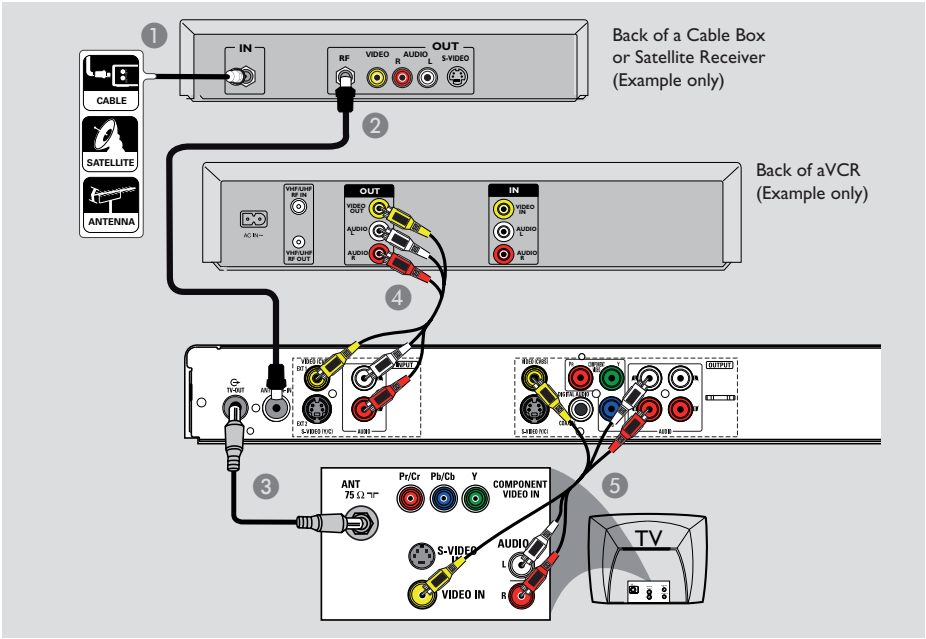
1. Connect the Antenna/Cable TV signal to the **ANTENNA-IN** jack on the recorder.
2. Use an RF antenna cable to connect the **TV-OUT** jack on the recorder to the antenna input jack on your TV (VHF/UHF RF IN).
3. Use the audio/video cables to connect the **VIDEO /AUDIO INPUT** (red/white/yellow) on the recorder to the matching VIDEO/AUDIO output jacks on the VCR.
4. Use the audio/video cables to connect the **VIDEO/AUDIO OUTPUT** (red/white/yellow) on the recorder to the matching VIDEO/AUDIO input jacks on the TV.

Helpful Hints:
– Most commercial video cassettes and DVDs are copy-protected and therefore cannot be recorded.
– Connect the recorder directly to the TV. If there is a VCR or an additional device in between, the picture quality may be poor because of the copy protection system built into the recorder.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

1_dvdr3460-97_um_en_26851a.indd 16 2007-08-27 1:04:32 PM

Step 2: Optional Connections (continued)



Connecting to a VCR and Cable Box/Satellite Receiver

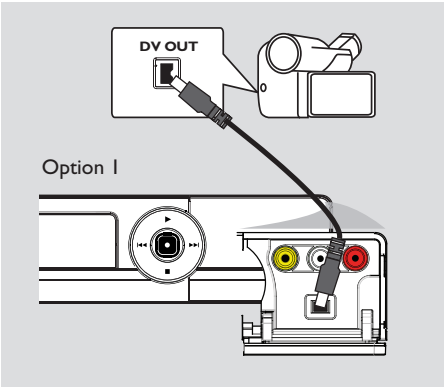
1. Connect the Antenna/Cable TV signal to the antenna input (RF IN) jack on the Cable Box/Satellite Receiver.
2. Use an RF antenna cable to connect the antenna output (RF OUT) jack on the Cable Box/Satellite Receiver to the **ANTENNA-IN** jack on the recorder.
3. Use another RF antenna cable (not supplied) to connect the **TV-OUT** jack on the recorder to the antenna input jack on the TV.
4. Use the audio/video cables to connect the **VIDEO/AUDIO INPUT** (red/white/yellow) on the DVD recorder to the matching VIDEO/AUDIO output jacks on the VCR.
5. Use the audio/video cables to connect the **VIDEO/AUDIO OUTPUT** (red/white/yellow) on the DVD recorder to the matching VIDEO/AUDIO input jacks on the TV.

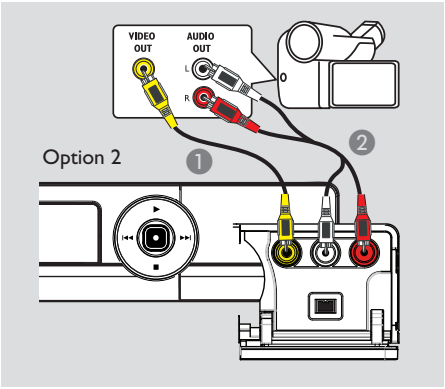
Helpful Hints:
– You may use the S-VIDEO (Y/C) jack instead of VIDEO (CVBS) jack if the connected device has the same S-VIDEO input/output jack. This video connection provides better picture quality.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

1_dvdr3460-97_um_en_26851a.indd 17 2007-08-27 1:04:32 PM

Step 2: Optional Connections (continued)





Connecting a camcorder to the front jacks

You can use the front jacks to copy camcorder recordings. These jacks are located behind the flap on the right and provides convenient connections for a camcorder.

Option 1: Using the DV IN jack

Use this connection if you have a Digital Video or Digital 8 camcorder. The DV jack conforms to the i.LINK standard.

- Use an i.LINK 4-pin cable (not supplied) to connect the **DV IN** jack on the recorder to the appropriate DV OUT jack on the camcorder.

  Before you start operating, press **SOURCE** on the remote control repeatedly to select 'DV' as the input channel.

  Helpful Hints:
  – The DV IN jack does not support a connection to a Personal Computer.
  – It is not possible to record from the recorder to your camcorder via the DV IN jack on your recorder.

Option 2: Using the VIDEO In jack

Use the VIDEO connection if your camcorder has only a single video output (Composite Video, CVBS).

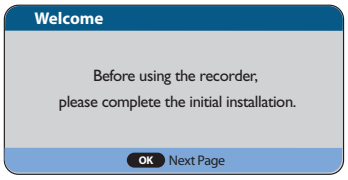
1. Connect the **VIDEO (CAM)** jack on the front panel of the recorder to the corresponding S-VHS or Video output jack on the camcorder.
2. Use an audio cable (red/white ends) to connect the **AUDIO L/R** jacks on the front panel of the recorder to the audio output jacks on the camcorder.

   Before you start operating, press **SOURCE** on the remote control repeatedly to select 'CAM' as the input channel.

TIPS: Before making or changing any connections, make sure that all the devices are disconnected from the power outlet.

1_dvdr3460-97_um_en_26851a.indd 18 2007-08-27 1:04:32 PM

Before you start ...
When you complete the connections and turn on the recorder for the first time, you should see the initial setup menu appears on the TV. Follow the instructions on the TV to complete the installation.



Otherwise, see the chapter "System Menu options" to make several basic settings: Menu language, Auto Install and Clock Setting. This will optimise the performance of this recorder.

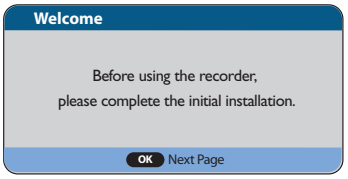
Finding the correct viewing channel

1. Press **STANDBY-ON** on the recorder to turn it on.
2. Turn on the TV and set it to the correct video-in channel.
   ➔ You may go to Channel 1 on your TV, then press the Channel Down button on your TV's remote control until you see the Video In channel.
   ➔ You may press ⊕ button repeatedly on your TV's remote control.
   ➔ Usually this channel is between the lowest and highest channels and may be called FRONT, A/V IN, VIDEO. See your TV manual for more details.

Initial recorder setup

The initial setup menu will appear on the TV when you first power up the recorder.

These settings will help you to set up the basic recorder features easily, including TV programme installation, language and clock settings.



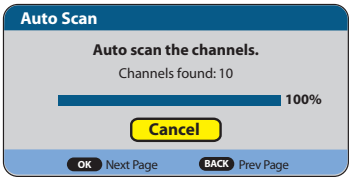
1. Press **OK** on the remote control to continue.
   ➔ The menu language appears.
   ➔ The language options are different depending on your country or region. It may not correspond to the illustrations shown on the user manual.

TIPS: Press **OK** to go to the next setup page. Press **BACK** to return to the previous setup page.

1_dvdr3460-97_um_en_26851a.indd 19 2007-08-27 1:04:32 PM

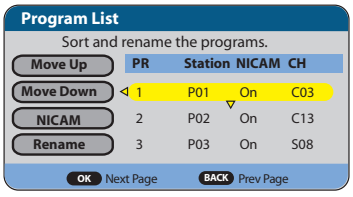
Step 3: Installation and Setup (continued)

2 Press **OK** on the remote control to continue.
➔ The auto scan menu appears.



Note: Make sure you have successfully made all the required connections to the recorder, the TV and Satellite Receiver/ Cable Box (if any) and turned them on.

3 The automatic TV channel search starts.
➔ This process may take several minutes. Once complete, the program list menu appears.



4 In this menu, you can rearrange the stored channels sequence, rename it or set your favourite channels list.

- If you do not wish to modify/change the stored channels, press **OK** on the remote control to continue, see step 8.

5 Highlight the preset channel you want to change, then press ◀ to move to the action bar at the left of the menu.

6 Use ▲▼ keys to select the required change action.

Sort channel

- Highlight { **Move Up** } or { **Move Down** } in the menu and press **OK** repeatedly to shift the selected channel to the desired preset number.

Set the NICAM mode

- Highlight { **NICAM** } in the menu and press **OK** to turn on or off the NICAM mode.

Note: NICAM is a digital sound transmission system. It can transmit either one stereo channel or two separate mono channels. Selects { **On** } to improve the sound transmission or { **Off** } if the reception is poor.

Rename channel

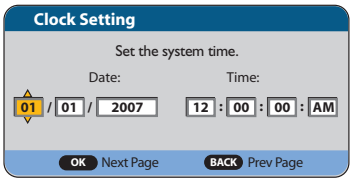
- Highlight { **Rename** } in the menu and press **OK** to show the keyboard screen. The maximum input is up to 5 characters.

Note: Use ◀ ▶▲▼ keys to navigate in the keyboard menu and press **OK** to select the character/number/symbol. To end, move to { **Finish** } in the menu and press **OK**.

TIPS: Press **OK** to go to the next setup page. Press **BACK** to return to the previous setup page.

1_dvdr3460-97_um_en_26851a.indd 20 2007-08-27 1:04:32 PM

7 Press ▶ to move the selection bar to the right before pressing **OK** to continue the next setup.
➔ The clock setting menu appears.



8 Use ▲▼ keys to change the numbers and use ◀ ▶ keys to select different entry fields.

- Alternatively, you can key in the numbers using the **numeric keypad 0-9** on the remote control.

9 Press **OK** to confirm and exit the menu.

The DVD recorder is now ready for use.

Helpful Hint:
– To reinstall, change or modify the TV channels, see the chapter "System Menu Options - Tuner settings".

TIPS: Press **OK** to go to the next setup page. Press **BACK** to return to the previous setup page.

1_dvdr3460-97_um_en_26851a.indd 21 2007-08-27 1:04:32 PM

Recording

Discs for recording

Several different formats of DVD recordable discs can be used with this recorder:

DVD±RW (DVD Rewritable)
– Discs that are rewritable can be used for multiple recordings once the existing data has been erased.

DVD±R (DVD Recordable)
– Discs can only be used for a single recording. Each new recording is always added at the end of all previous recordings as existing recordings cannot be overwritten.
– Editing can be made on any DVD±R discs as long as they have not been finalized (except { **Erase A-B** }, { **Divide** } and { **Undo Erase** }).
– To play a DVD±R on other DVD player, it must be finalized (see the chapter "Disc settings – Finalize"). After this is done, no more data can be added to the disc.

DVD±R DL (DVD±R Double Layer)
– Like the DVD±Rs, these discs can only be used for a single recording. The only difference is the capacity- 8.5GB. It offers two recordable layers on a single DVD disc. The layers are accessible from the same side of the disc, so recording can occur completely uninterrupted.

Supported disc types and media speeds

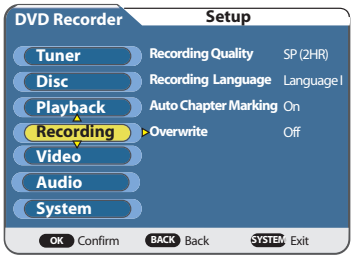
Disc	Media speeds
DVD+R	1x - 16x
DVD+RW	2.4 x - 4x
DVD-R	1x - 16x
DVD-RW	2x - 4x
DVD+R DL	2.4x - 8x
DVD-R DL	4x

IMPORTANT!
Unrecordable pictures
Television programs, films, video tapes, discs, and other materials may be copy-protected and therefore cannot be recorded on this recorder.

Recording settings

The default recording settings allow you to set the recording quality, default recording language, set auto chapter markers, and enable the overwrite function.

1. Press **SYSTEM-MENU** on the remote control.
   ➔ The system menu appears on the TV.
2. Use ▲▼ keys to select { **Recording** } and press ▶ to access its options.



3. Use ▲▼ keys to select the setting you wish to change and press **OK** to confirm.
   ➔ Instructions and explanations of the options are provided in the following pages.
4. To exit, press **SYSTEM-MENU**.

1_dvdr3460-97_um_en_26851a.indd 22 2007-08-27 1:04:32 PM

Recording settings (underlined options are the factory default settings)

Recording Quality

The recording mode defines the picture quality of the DVD recordings and the maximum recording time on a disc. The factory default setting is **SP**.

Record Mode	Picture Quality	Maximum Recording Time per Disc (hours)
HQ	High Quality	1
SP	Standard Play	2
LP	Long Play	3
EP	Extended Play	4
SLP	Super Long Play	6

Recording Language

Selects the recording language to be used for TV programmes which are transmitted an additional audio language. For example, if a programme is available in English and Spanish, with Spanish being the additional language option.

{ **Language I** } – Original broadcast language.

{ **Language II** } – Additional audio language.

Auto Chapter Marking

Automatically divides a recording (title) into chapters by inserting chapter markers at a specific interval. This enables you to access a specific point in the recording quickly.

{ **Off** } – No chapter marker will be inserted in the recording.

{ **On** } – Chapter markers are inserted automatically during recording at approximately 5 (five) minutes interval.

Overwrite

This function allows you to overwrite the contents in a DVD±RW automatically whenever you start a new recording.

{ **On** } – Enable overwrite function. When you start a new recording on a DVD±RW, the disc will be overwritten from the selected title onwards.

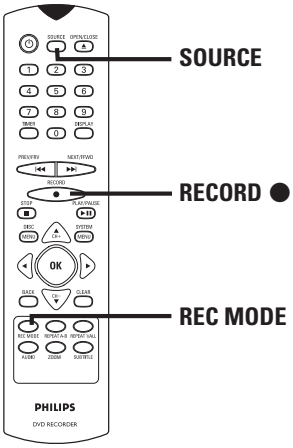
{ **Off** } – Disable overwrite function. The new recording will always start from the empty title in the DVD±RW.

1_dvdr3460-97_um_en_26851a.indd 23 2007-08-27 1:04:32 PM

Recording (continued)

Manual recording

You can choose to record the TV program or make a recording from an external device.



1. Turn on the TV to the correct viewing channel for the recorder.
2. Insert a recordable DVD into the recorder.
3. Use ▲▼ keys to select the TV channel you wish to record.

- **To record from an external device**, press **SOURCE** repeatedly to select the correct input channel that matches the jack which is used to connect the external device.

  { **CAM** }
  Input source from the device connected to the CAM and AUDIO L/R jacks on the front panel.

  { **DV** }
  Input source from the device connected to DV IN jack on the front panel.

  { **EXT 1** }
  Input source from the device connected to the VIDEO (CVBS) EXT1 jack on the back panel.

  { **EXT 2** }
  Input source from the device connected to the S-VIDEO (Y/C) EXT2 jack on the back panel.

4. Set a recording mode as necessary by pressing **REC MODE** repeatedly.
5. Press **RECORD** ● to start recording.
   ➔ If the disc has contained some recordings, the new recording will automatically start after the last recording on the disc.

- **To pause the recording,** press ▶II. To continue recording, press ▶II or **RECORD** ● again.
  ➔ You can use this function to avoid recording commercials.

6. To stop the recording, press **STOP** ■.
   ➔ Otherwise, recording continues until the disc is full.

Instant time-off recording

1. Follow the steps 1~5 of "Manual Recording" in the previous section.
2. Press **RECORD** ● repeatedly to set the recording time. Each subsequent press the **RECORD** ● key increases the recording time by 30 minutes.
3. The recorder will stop recording at the designated end time and turn off to standby mode automatically.

- If you wish to stop the recording before the scheduled time, press **STOP ■.**

TIPS: Ensure that there is enough space on the DVD±R/±RW before recording. Before you playback the DVD±R on another player, finalize the disc. See chapter "Disc settings - Finalize".

1_dvdr3460-97_um_en_26851a.indd 24 2007-08-27 1:04:33 PM

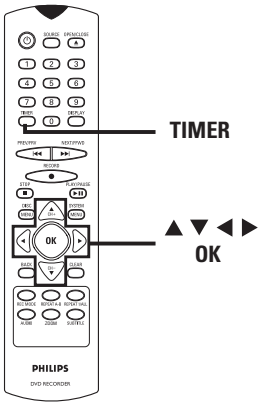
English

About timer recording

Use 'Timer Recording' to automatically start and stop a recording at a later date time. The recorder will tune to the right program channel and begin recording at the specified time.

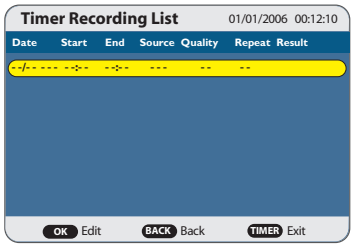
With this recorder, you can schedule up to **8 recordings** for a limit of one month period. During timer recording, changing of recorder's channel is not possible.

Before you start ...
Make sure that the system clock is correct.



Timer recording

1. Turn on the TV to the correct viewing channel for the recorder.
2. Press **TIMER** on the remote control.
   ➔ The timer recording list appears.



3. Select an empty list in the menu and press **OK** to access the timer entry field.
4. Use ▲▼ keys to change the value of each setting and use ◀ ▶ keys to move within the entry field.

- You may also use the numeric keypad on the remote control to key in the setting value.

TIPS: Ensure that there is enough space on the DVD±R/±RW before recording. Before you playback the DVD±R on another player, finalize the disc. See chapter "Disc settings - Finalize".

1_dvdr3460-97_um_en_26851a.indd 25 2007-08-27 1:04:33 PM

Recording (continued)

{ **Date** }
– Date for recording (day/month).

{ **Start** }
– Start time of recording (hours: minutes).

{ **End** }
– End time of recording (hours:minutes).

{ **Source** }
– Select the TV channel or the correct input source (EXT2, EXT1 or CAM), which you have used to connect the external device.

{ **Quality** }
– Select the mode of recording.
See the chapter "Recording settings - Recording Quality" for more information.

{ **Repeat** }
– Select the desired repeat recording setting { **None** }, { **Daily** }, { **Weekly** }, { **Mon-Fri** } (Monday to Friday), or { **Weekend** } (Saturday and Sunday).

6 Once complete, press **OK**.

7 Press **TIMER** to exit the menu.

8 Insert a recordable DVD into the DVD recorder.

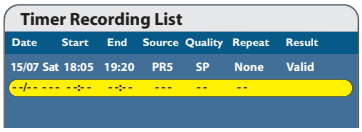
9 Press **STANDBY-ON** to turn off the recorder to standby mode.

Helpful Hint:
– Set the timer recording one minute ahead of the program's start time. This helps ensure the entire program is recorded as the disc requires about 30 seconds to prepare for recording.

Changing/ Deleting a timer recording

1 Turn on the TV to the correct viewing channel for the recorder.

2 Press **TIMER** on the remote control.
➔ The timer recording list appears.



3 Use ▲▼ keys to select a timer program which you want to change/ delete, then press **OK**.
➔ The edit menu appears.

- **To change the timer schedule**, highlight { **Edit** } and press **OK**. Select the entry field and make the necessary changes, then press **OK** to save.
- **To delete a timer program**, highlight { **Delete** } and press **OK**.
- **To stop a timer program**, highlight { **Disable** } and press **OK**.
- **To exit from the edit menu**, highlight { **Cancel** } and press **OK**.

4 Press **TIMER** to exit the menu.

TIPS: Ensure that there is enough space on the DVD±R/±RW before recording. Before you playback the DVD±R on another player, finalize the disc. See chapter "Disc settings - Finalize".

1_dvdr3460-97_um_en_26851a.indd 26 2007-08-27 1:04:33 PM

Playable discs

Using this recorder, you can play and record on the following discs:

Recording and Playback

DVD±RW (DVD Rewritable); can be recorded on over and over again.

DVD±R (DVD Recordable); can be recorded only once.

DVD±R DL (DVD±R Double Layer); can be recorded on only once.

Playback only:

DVD Video (Digital Versatile Disc)

CD-RW (CD-Rewritable) Audio/ MP3/ JPEG contents

CD-R (CD-Recordable) Audio/ MP3/ JPEG contents

Audio CD (Compact Disc Digital Audio)

MP3-Disc

Video CD (Formats 1.1, 2.0)

Super Video CD

DivX Disc (according to home theatre profile)

IMPORTANT!

– If the inhibit icon (⃠) appears on the TV screen when a key is pressed, it means the function is not available on the current disc or at the current time.

– DVD discs and players are designed with regional restrictions. Before playing a disc, make sure the disc is for the same region as your player.

– Do not push on the disc tray or put any objects other than discs on the disc tray. It may cause the disc player to malfunction.

Starting disc playback

1. Press **STANDBY-ON** to switch on the recorder.
2. Press **OPEN/CLOSE ⏏**.
   ➔ The disc tray opens.
3. Carefully place the disc into the tray with the label facing up, then press **OPEN/CLOSE ⏏**.
   ➔ Make sure the disc label is facing up. For double-sided discs, load the side as indicated on the label.
4. Turn on the TV to the correct viewing channel for the recorder.
5. Playback may start automatically.
   OR

- In Tuner mode, press **DISC MENU** or **►II** to show the disc content. Select a track/title to play and press **►II**.
- For more playback features, see the chapter "Additional Playback Features".

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

1_dvdr3460-97_um_en_26851a.indd 27 2007-08-27 1:04:33 PM

Playback (continued)

Playing a DVD video disc

Normally the DVD disc contains a disc menu. You may have to make your selection (e.g., subtitle or audio language) within the disc menu.

1. Insert a DVD disc.

- If the disc menu appears on the TV, use ◄►▲▼ keys to select a play option or use **numeric keypad 0-9** to input your selection and press **OK** to start playback.

To select the previous or next chapter/title marker

- During playback, press ⏮ / ⏭.

2. To stop playback, press **STOP** ■.

Playing a (Super) Video CD

(Super) Video CDs may feature the 'PBC' (Play Back Control). This allows you to play the video CDs interactively by following the menu on the display.

1. Insert a (Super) Video CD.

- If the disc index menu appears, use the **numeric keypad 0-9** to input your play selection and press **OK** to confirm.
- To return to the previous menu, press **BACK** on the remote control.
- To turn on/off the Playback Control (PBC) mode, read the chapter "System Menu Settings – Playback settings – PBC".

2. To stop playback, press **STOP** ■.

Playing a DVD recordable disc

1. Insert a DVD recordable disc.
2. Press **DISC-MENU**.
   ➔ The disc menu appears.
3. Use ◄►▲▼ keys to select a title and press ►II to start playback.
4. To stop playback, press **STOP** ■.

Playing a DivX® disc

This recorder supports the playback of DivX® movies which you have copied from your computer onto a CD-R/RW, DVD±R/±RW.

1. Insert a DivX® disc.
2. Press ►II to start playback.

During playback, you can:

- If multilingual subtitles are embedded on the DivX disc, you can press **SUBTITLE** to change the subtitle language while playing.

3. To stop playback, press **STOP** ■.

Note:
To select another character set for the subtitle file, see the chapter "Playback settings - DivX Subtitle Font".

Helpful Hints:
– Subtitle files with the following filename extensions (.srt, .smi, .sub, .sami) are supported.
– It is normal to experience an occasional pixelation during DivX® playback due to poor clarity of digital contents during internet downloading.

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

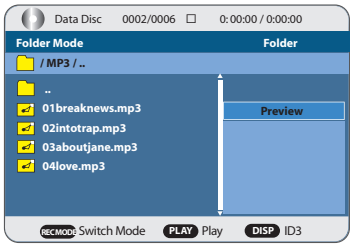
1_dvdr3460-97_um_en_26851a.indd 28 2007-08-27 1:04:34 PM

English

Playing an MP3 disc

This recorder can playback most of the MP3 audio files and JPEG picture files recorded on a recordable disc or commercial CD.

1. Insert an MP3 CD.
   ➔ The disc content menu appears.
   ➔ It may require a longer time for the recorder to display the disc content menu on the TV due to the large number of songs/pictures compiled into one disc.
2. Use ▲▼ keys to navigate within the menu and press **OK** to access the folder/ album.



- To switch between folders or files menu display, press **REC MODE**.
- To move up to the previous level, press **BACK**.

3. Use ▲▼ keys to select a track/file and press ▶II to start playback.
   - If the MP3 file contains of ID3 tag, pressing **DISPLAY** will show the ID3 information.
4. To stop playback, press **STOP** ■.

Helpful Hints:
– Only the first session of a multi-session CD will playback.
– This recorder does not support MP3PRO audio format.
– If any special characters are present in the MP3 track name (ID3) or album name, it might not be displayed correctly on the screen because this recorder does not support the characters.

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

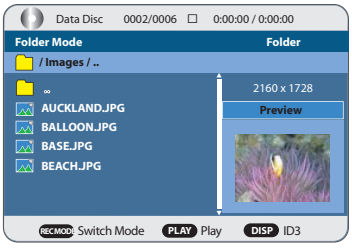
1_dvdr3460-97_um_en_26851a.indd 29 2007-08-27 1:04:34 PM

Playback (continued)

Playing a picture disc (slide show)

You can display JPEG pictures in the selected roll automatically one after the other.

1. Insert a JPEG picture disc (CD, CD-R/RW, DVD±R/±RW).
   ➔ The disc content menu appears.
2. Use ▲▼ keys to navigate within the menu and press **OK** to access the folder/ album.



- To move up to the previous level, press **BACK**.

3. Use ▲▼ keys to select a track/file and press ▶II to start slideshow playback.
4. During playback, you can access to various settings.

- Press **TIMER** to enter or exit the help menu. It lists the functions of the keys on the remote control.
- Press **STOP** ■ to display 16 thumbnail pictures in one screen. Use I◀◀ / ▶▶I keys to move to the previous/next page.
- Press **ZOOM** to enter or exit zoom mode. While in zoom mode, use I◀◀ / ▶▶I keys to change the zoom factor and use ◀ ▶▲▼ keys to pan through the zoomed picture.
- Use ◀ ▶▲▼ keys to rotate the picture.
- Use I◀◀ / ▶▶I keys to view the previous/next file.
- Press **REC MODE** repeatedly to select a refresh mode for slideshow playback.
- Press **BACK** or **DISC-MENU** to return to the main menu.

5. To stop playback, press **STOP** ■.

If the disc contains of MP3 music and JPEG picture files, you can start a musical slide show playback,

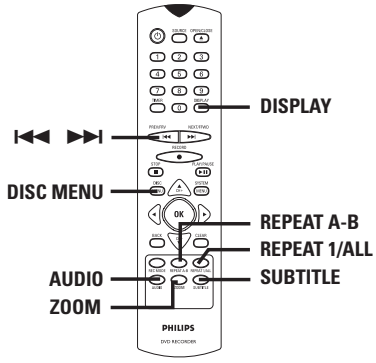
- Select an MP3 file and press **OK** to start playback. Then, select a picture file in the menu and press **OK** to start slideshow playback.

Supported JPEG picture formats
File format:
– The file extension has to be '.JPG,' '.JPE' or '.JPEG.'
– This recorder can only display digital camera pictures according to the JPEG-EXIF format, typically used by almost all digital cameras. It cannot display Motion JPEG or pictures in formats other than JPEG or sound clips associated with pictures.

Helpful Hints:
– Discs created by personal computer may not be able to play on this recorder due to difference in recording techniques. Compatibility with recordable format is not guaranteed.
– It may require longer time for the recorder to display the disc content on the TV due to the large number of songs/pictures compiled into one disc.
– If the JPEG picture is not recorded with an 'exif' type file, the actual thumbnail picture will not be shown on the display.

TIPS: Some discs cannot be played on this recorder due to the configuration and characteristics of the disc, or due to the condition of recording and authoring software.

1_dvdr3460-97_um_en_26851a.indd 30 2007-08-27 1:04:34 PM



Changing to another title/chapter/track

When a disc contains more than one chapter or track, you can change to a different track, title or chapter as follows.

During playback,

- Press ▶▶| to go to the next chapter/ track.
- Press |◀◀ to return to the start of the previous chapter/track.
  OR
- Use the **numeric keypad 0-9** to input the chapter/track number.
  OR
- Press **DISPLAY** to display the video playback options menu.

  Highlight title icon in the menu and press ▶ to change the title number.

  Highlight chapter icon in the menu and press ▶ to change the chapter number.

Pausing playback / slow motion play

1. During playback, press ▶II to pause playback and display a still picture.
2. To move the still picture one frame backward or forward, press ◀ or ▶ keys repeatedly.
3. To start a slow motion play, press and hold the |◀◀ (reverse) or ▶▶| (forward) repeatedly to cycle through the different slow motion speed (1/16X, 1/8X, 1/4X, 1/2X).
4. To resume normal playback, press ▶II.

Searching forward/ backward

You can fast forward or fast reverse a disc during playback and select a desired search speed.

1. During playback, press and hold |◀◀ (reverse) or ▶▶| (forward) until the search speed status bar (2X) appears on the TV.
   ➔ The sound will be muted.
2. Press |◀◀ (reverse) or ▶▶| (forward) repeatedly to cycle through the different search speed (2X, 4X, 8X, 16X, 32X).
3. To resume normal playback, press ▶II.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

1_dvdr3460-97_um_en_26851a.indd 31 2007-08-27 1:04:34 PM

Additional Playback Features (continued)

Repeat play

The repeat play options vary depending on the disc type.

1. During playback, press **REPEAT I/ALL** to select one of the repeat options.
   - ➔ Repeat chapter (DVD/DVD±R/±RW)
   - ➔ Repeat track/title (CD/VCD/DVD/DVD±R/±RW)
   - ➔ Repeat all (CD/VCD/DVD/DVD±R/±RW)
2. To cancel repeat playback, press **REPEAT I/ALL** repeatedly to select 'Off' or press **STOP ■**.

Repeating a specific segment (A-B)

You can repeat the playback of a specific segment within a title/chapter track. To do this, you must mark the start and end of the segment you want.

1. During playback, press **REPEAT A-B** at the point where you want the repeat playback to begin.
2. Press **REPEAT A-B** again at the point where you want to end the repeat playback.
   ➔ Playback skips to the start of the marked segment. The segment is repeated until the repeat mode is cancelled.
3. To cancel repeat playback, press **REPEAT A-B** once again.

Changing subtitle language

This operation works only on DVDs with multiple subtitle languages. You can change the language you want while playing DVD.

- During disc playback, press **SUBTITLE** repeatedly to toggle through the language options on the disc.
  ➔ If the language selected is not available on the disc, the disc's default setting language will be used instead.

Helpful Hint:
– Some DVDs discs allow subtitle language changes only via the DVD disc menu. To access the disc menu, press DISC-MENU.

Changing audio soundtrack language

This operation works only on DVDs with multiple soundtrack language or VCDs with multiple audio channel.

- During disc playback, press **AUDIO** repeatedly to toggle through the audio channels and audio language on the disc.
  ➔ If the language selected is not available on the disc, the disc's default setting for language will be used instead.

Helpful Hint:
– Some DVDs allow soundtrack language changes only via the DVD disc menu. To access the Disc Menu, press DISC-MENU.

TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

1_dvdr3460-97_um_en_26851a.indd 32 2007-08-27 1:04:34 PM

Switching camera angles

This option is only available with DVDs that contain sequences recorded from different camera angles. This allows you to view the picture from different angles.

1. During playback, press **DISPLAY** to display the video playback options menu.
2. Press ▼ repeatedly to highlight { **Angle** }.
3. Use ◀ ▶ keys to select a desired camera angle available on the disc.
   ➔ If multiple angles feature is supported, the icon will appear.

Time search

This option allows you to skip to a specific point in the current disc.

1. During playback, press **DISPLAY** to display the video playback options menu.
2. Highlight time search icon in the menu and press **OK**.
   ➔ The elapsed playing time will change to time input field.

3. Use the **numeric keypad (0-9)** to input the 6-digit time.
   ➔ Playback skips to the selected time.

Resume playback from the last stopped point

This option is only available with DVDs/ VCDs. The recorder is able to resume disc playback from its last stopped point.

Before you start..
Make sure that the resume mode setting is turned on, see the chapter "Playback settings - Resume".

- Load in a disc and press ▶II to start playback from the last stopped point.

To cancel the resume mode and start playback from the beginning

- When playback stopped, press **STOP** ■ again.

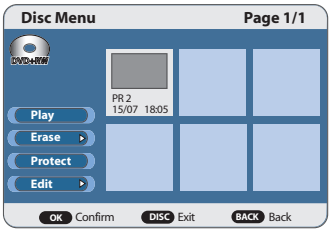
TIPS: The operating features described here might not be possible for certain discs. Always refer to the instructions supplied with the discs.

1_dvdr3460-97_um_en_26851a.indd 33 2007-08-27 1:04:35 PM

Edit Recordings

About editing recordable DVDs

After a recording has been made, this recorder allows you to edit the title or video content. You can erase or protect the recording, and rename the recording. If a DVD±R has been finalized, it cannot be edited.



{ **Play** }
Play the selected title (recording).

{ **Erase** }
Erase the selected title or all the titles.

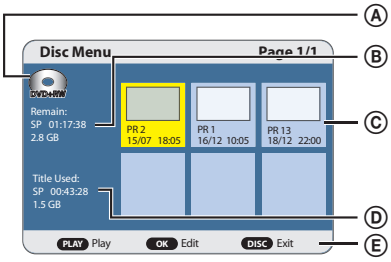
{ **Protect** } / { **Unprotect** }
Protect or unprotect the selected title against editing or accidental loss of recordings.

{ **Edit** }
Change the name of the title, hide any unwanted scenes or divide a title in the recording.

Note:
To edit the recordable DVD (e.g. format, finalize, lock), see the chapter "System Menu Options - Disc settings".

Disc menu index screen

The disc menu index screen shows your recordings on a recordable DVD. It should appear on the TV once you load a recordable DVD or when you press the **DISC-MENU** on the remote control.



The disc menu index screen consists of the following recording information:

Ⓐ The type of disc.
Ⓑ The remaining recording time in different recording mode. Press **REC MODE** to change the recording mode.
Ⓒ The thumbnail of the title, title's name and information.
Ⓓ The used space and recording time.
Ⓔ The control keys that can be used and their functions.

Erase title(s)

You can choose to delete a specific title (recording) or all the titles from the disc.

1. Press **DISC-MENU**.
2. Use ▲▼◀▶ keys to select the preferred title and press **OK**.
   ➔ The editing menu appears.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press **BACK** to go back to the previous menu.

1_dvdr3460-97_um_en_26851a.indd 34 2007-08-27 1:04:35 PM

3 Use ▲▼ keys to select { **Erase** } and press **OK**.

4 Highlight { **Erase title** } to erase the current selected title or { **Erase all** } to erase all the titles in the disc, then press **OK**.
➔ A confirmation message appears.

5 Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

Protect/Unprotect title

You can choose to protect the recorded title in order to prevent accidental loss of recordings.

1 Press **DISC-MENU**.

2 Use ▲▼◀▶ keys to select the preferred title and press **OK**.
➔ The editing menu appears.

3 Use ▲▼ keys to select { **Protect** } and press **OK**.
➔ A confirmation message appears.

4 Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

- When the title is protected, the option in the menu will change to { **Unprotect** }. Unprotect the title if you want to erase or edit the title.

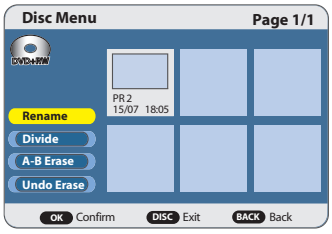
Rename title

The original title name is generated automatically by the recorder. You can give a new name to the title by following the steps below.

1 Press **DISC-MENU**.

2 Use ▲▼◀▶ keys to select the preferred title and press **OK**.
➔ The editing menu appears.

3 Use ▲▼ keys to select { **Edit** } and press **OK**.



4 Highlight { **Rename** } and press **OK**.
➔ A keyboard screen appears.

5 Use ◀ ▶ ▲▼ keys to highlight a character/number/symbol and press **OK** to select.
➔ The maximum input is up to 64 characters.

- You can use the following keys on the keyboard screen to edit your input. To select it, highlight the respective bar and press **OK**.

abc	: display the letters in upper case.
ABC	: display the letters in lower case.
Symbol	: display the symbols.
Space	: create a space between the characters.
Backspace	: remove the character to the left of the cursor.
Finish	: confirm the rename.
Cancel	: cancel renaming and exit the keyboard entry menu.

TIPS: No further recording and editing can be carried out on a full or finalized DVD±R.
Press **BACK** to go back to the previous menu.

1_dvdr3460-97_um_en_26851a.indd 35 2007-08-27 1:04:35 PM

Edit Recordings (continued)

6 Once complete, move to { **Finish** } in the menu and press **OK**.
➔ The information panel is now updated.

Dividing title (DVD±RW only)

You can divide a title into two or more titles. Note that the title length must be more than 6 (six) seconds.

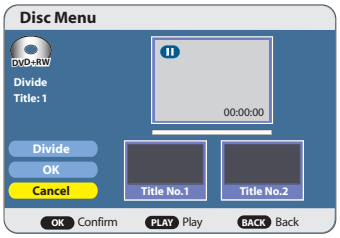
Warning! Once a title has been divided, it cannot be reversed.

1 Press **DISC-MENU**.

2 Use ▲▼◀▶ keys to select the preferred title and press **OK**.
➔ The editing menu appears..

3 Use ▲▼ keys to select { **Edit** } and press **OK**.

4 Highlight { **Divide** } and press **OK**.
➔ The divide title screen appears. By default, the title screen will be in pause mode.



5 Press ▶II to start playback.

- To make a fast search, press and hold I◀◀ ▶▶I keys.
- To locate a specific frame during playback, press ▶II to pause the playback, then press ◀ or ▶ repeatedly.

6 With { **Divide** } highlighted, press **OK** to set the dividing point.

7 With { **OK** } highlighted, press **OK** start divide.
➔ Once complete, a new title will be shown at the disc menu index screen.

Erase part of a title (DVD±RW only)

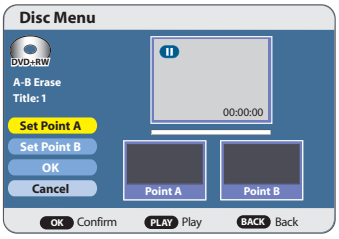
This option allows you to erase unwanted scenes from the recording (e.g. commercial scene). To do it, you have to set the beginning (point A) and end (point B) of the scenes to erase.

1 Press **DISC-MENU**.

2 Use ▲▼◀▶ keys to select the preferred title and press **OK**.
➔ The editing menu appears.

3 Use ▲▼ keys to select { **Edit** } and press **OK**.

4 Highlight { **A-B Erase** } and press **OK**.
➔ The title screen will be in pause mode by default.



5 Press ▶II to start playback.

- To make a fast search, press and hold I◀◀ ▶▶I keys.
- To locate a specific frame during playback, press ▶II to pause the playback, then press ◀ or ▶ repeatedly.

6 With { **Set Point A** } highlighted, press **OK** to set the beginning point.

7 With { **Set Point B** } highlighted, press **OK** to set the end point.

8 With { **OK** } highlighted, press **OK** to start A-B erase.

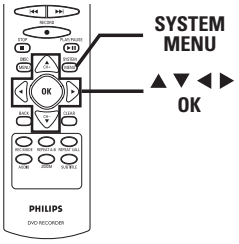
Helpful Hint:
– To recover the deleted scenes, select { Undo Erase } in the edit menu.

1_dvdr3460-97_um_en_26851a.indd 36 2007-08-27 1:04:35 PM

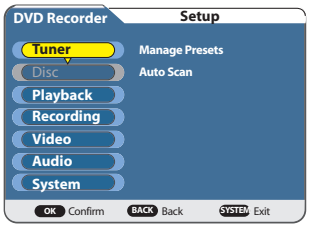
English

Accessing the System Menu

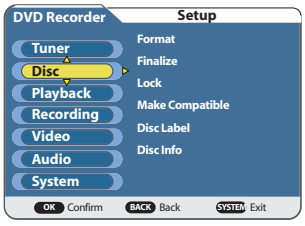
The system menu provides various options for you to adjust the recorder to suit your preferences.



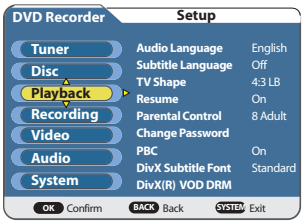
1. Press **SYSTEM MENU** on the remote control.
   ➔ The system menu appears on the TV.
2. Use ▲▼ keys to highlight a menu item and press ▶ to access its options.
3. Use ▲▼ keys to highlight the setting you wish to change and press **OK** to confirm and return to the previous menu item.
   ➔ Instructions and explanations of the options are provided in the following pages.
4. To exit, press **SYSTEM MENU**.



See this chapter “Tuner settings”.

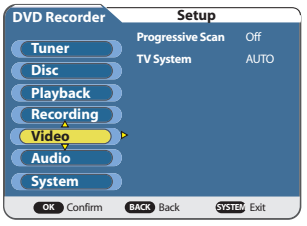


See this chapter “Disc settings”.

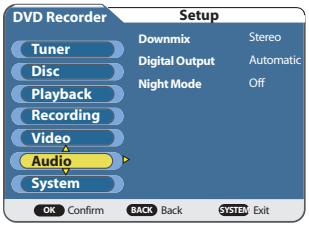


See this chapter “Playback settings”.

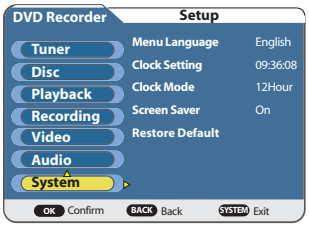
Read the chapter “Recording” for details on “Recording settings”.



See this chapter “Video settings”.



See this chapter “Audio settings”.



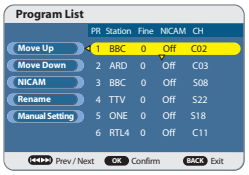
See this chapter “System settings”.

1_dvdr3460-97_um_en_26851a.indd 37 2007-08-27 1:04:35 PM

System Menu Options (continued)

Tuner settings

Manage Presets



Adjust the stored TV channels to your preference.
Select this and press **OK** to enter the programme list menu.

1) Use ▲▼ keys to highlight the channel to be modified.
2) Press ◀ to move to the action bar at the left.
3) Use ▲▼ keys to select one of the change options:

{ **Move Up** } – Press **OK** to move the highlighted channel up to the previous preset number in the programme list.

{ **Move Down** } – Press **OK** to move the highlighted channel down to the next preset number in the programme list.

{ **NICAM** } – NICAM is a digital sound transmission system. It can transmit either one stereo channel or two separate mono channels. Selects { **On** } to improve the sound transmission or { **Off** } if the reception is poor.

{ **Rename** } – Press **OK** to enter the rename entry field. Use ◀ ▶ ▲ ▼ keys to highlight a character/number/symbol in the keyboard menu and press **OK** to select. Once complete, move to { **Finish** } in the menu and press **OK**.

Note: The maximum input is up to five characters.

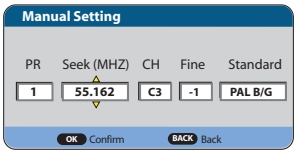
You can use the following keys on the keyboard screen to edit your input. To select it, highlight the respective bar and press **OK**.

abc	:	display the letters in upper case.
ABC	:	display the letters in lower case.
Symbol	:	display the symbols.
Space	:	create a space between the characters.
Backspace	:	remove the character to the left of the cursor.
Finish	:	confirm the rename.
Cancel	:	cancel renaming and exit the keyboard entry menu.

1_dvdr3460-97_um_en_26851a.indd 38 2007-08-27 1:04:35 PM

English

Tuner settings



{ **Manual Setting** } – Press **OK** to enter the manual setting menu. Use ▲▼ keys to change the setting and ◀▶ keys to move to the previous/next entry field.

{ **PR** }
– The programme preset number of the channel you are currently selected.

{ **Seek (MHZ)** }
– Use ▲▼ keys to seek for a valid frequency transmission.

{ **CH** }
– Use ▲▼ keys to select a TV programme channel.

{ **Fine** }
– Manual Fine Tune the channel. Use ▲▼ keys to increase/decrease the frequency by 0.06~0.07 MHZ.

{ **Standard** }
– Use ▲▼ keys to select a TV system standard that produces the least distortion of picture and sound.

Auto Scan

This option contains all the initial setup required for this recorder before you can use it to watch or record your favourite TV program.

Press **OK** on the remote control to start automatic installation of TV channels. This process may take several minutes.

1_dvdr3460-97_um_en_26851a.indd 39 2007-08-27 1:04:36 PM

System Menu Options (continued)

Disc settings

Format

Formatting is required for certain DVD+VR or DVD±RW disc before it can be used for recording on this recorder.

1) Press **OK** to select.
2) A confirmation message will appear. Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

Note: Once the disc has been formatted, all the contents in the disc will be lost.

Finalize

Finalizing the recorded DVD±R to enable playback on another DVD player.

1) Press **OK** to select.
2) A confirmation message will appear. Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

Note: Once the DVD±R has been finalized, no further recordings or editing can be made to it. It is not possible to unfinalize the DVD±R.

Lock

In order to prevent the recorded materials from being accidentally erased or edited, you can choose to lock the recordable DVD.

1) Press **OK** to select.
2) A confirmation message will appear. Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

Note: If the current disc is locked, the option in the menu will change to { **Unlock** }.

Make Compatible

The edited DVD±RW may still display the original titles or hidden scenes when played back on other DVD players. This function allows you to make the edited DVD±RW compatible with other players.

1) Press **OK** to select.
2) A confirmation message will appear. Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

Note: If the option is not available for selection, it means that the disc is already compatible.

1_dvdr3460-97_um_en_26851a.indd 40 2007-08-27 1:04:36 PM

Disc settings (continued)

Disc Label

Change the name of the disc.

1) Press **OK** to enter the disc label menu.
2) Use ◀▶▲▼ keys to highlight a character/number/symbol in the keyboard menu and press **OK** to select.
3) Once complete, move to { **Finis**h } in the menu and press **OK**.

Note: The maximum input is up to 64 characters.

Disc Info

Select this and press **OK** to view the current disc information. To exit the menu, press **BACK**.

{ Label } – The name of the disc.
{ Title No. } – The total number of titles in the disc. In general, the maximum title number is 99.
{ Media } – Disc type.
{ Status } – The status of the disc (recordable and unrecordable).
{ Space } – The used space and total space.
{ Remainder } – Shows the remaining space using a bar graphic.

1_dvdr3460-97_um_en_26851a.indd 41 2007-08-27 1:04:36 PM

System Menu Options (continued)

Playback settings (underlined options are the factory default settings)

Audio Language

Select the preferred audio language for DVD playback.

Subtitle Language

Select the preferred subtitle language for DVD playback.

Notes:
– If the selected audio/subtitle language is not available on the disc, the disc's default setting language will be used instead.
– For some DVDs, the subtitle/audio language can only be changed via the DVD disc menu.

TV Shape

Set the aspect ratio of the recorder according to the TV type you have connected.

{ **4:3 PS** } – Select this for a full-height picture with both side trimmed.

{ **4:3 LB** } – Select this for a 'wide screen' display with black bands on the upper and lower portions of the TV screen.

{ **16:9** } – Select this for wide screen TV (frame ratio 16:9).

Resume

With this feature, you can resume last played disc playback from its last stopped point.

{ **On** } – Turn on the resume mode. The recorder will auto resume playback of the disc from its last stopped position.

{ **Off** } – The disc will always start from the beginning when you load a disc or start playback.

Note: To cancel the resume option, press the OPEN/CLOSE key on the remote control.

1_dvdr3460-97_um_en_26851a.indd 42 2007-08-27 1:04:36 PM

Playback settings (continued)

Parental Control

Some DVDs may have a parental level assigned to the complete disc or to certain scenes on the disc. This feature lets you set a playback limitation level.

Rating explanations

{ 1. Kid Safe } ~ { 2. G } – Childsafe; acceptable for viewers of all ages.

{ 3. PG } – Parental Guidance suggested.

{ 4. PG13 } – Unsuitable for children under age 13.

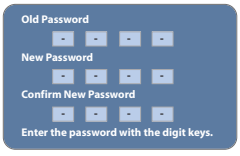
{ 5. PG R } ~ { 6. R } – Restricted; recommended that parents restrict children under 17 from viewing or allow to view only when supervized by a parent or adult guardian.

{ 7. NC 17 } – No children under age 17; viewing not recommended for children under age 17.

{ 8. Adult } – Mature material; should be viewed only by adults due to graphic sexual material, violence or language.

1) Press **OK** to access this menu and
2) Use ▲▼ keys to select one of the options and press **OK**.
3) Use the numeric keypad 0-9 to enter your four-digit pin code and press **OK**. (When doing this for the first time, enter the default password '**1234**'.)

Change Password



Change the password for parental control.
Use the **numeric keypad 0-9** to enter your four-digit pin code and press **OK**.

1) Enter your existing four digit password. (When doing this for the first time, enter the default password '**1234**'.)
2) Enter the new four digit pin code.
3) Enter the same four digit pin code again.

PBC

This 'PBC' (Play Back Control) allows you to play the (Super) Video CDs interactively, following the menu on-screen.

{ **On** } – Turn on PBC control.

{ **Off** } – Turn off PBC control.

1_dvdr3460-97_um_en_26851a.indd 43 2007-08-27 1:04:36 PM

System Menu Options (continued)

Playback settings (continued)

DivX Subtitle Font

Select the font type that supports the recorded DivX subtitle.

{ **Standard** } – Display a standard list of Roman subtitle fonts provided by this recorder.

{ **Central Eur.** } – Display Central European fonts.

{ **Cyrillic** } – Display Cyrillic fonts.

DivX(R) VOD DRM

Select to view the DivX® VOD (Video On Demand) registration code that allows you to rent or purchase videos using DivX® VOD services. For more information, visit www.divx.com/vod.

1) Press **OK** to display the registration code.
2) Press **BACK** to return to the previous menu.
3) Use the registration code to purchase or rent videos from DivX® VOD service at www.divx.com/vod. Follow the instructions and copy the video from your computer onto a CD-R/RW or recordable DVD for playback on this recorder.

Note: All the downloaded videos from DivX® VOD can only be played back on this recorder.

1_dvdr3460-97_um_en_26851a.indd 44 2007-08-27 1:04:36 PM

Video settings

Progressive Scan

Progressive scan delivers a higher picture quality than the standard interlaced TV channel scan. It only works when you have connected the recorder's Y Pb Pr jacks to your TV that supports the progressive video input. Otherwise, the image may not appear or will be distorted. Refer to your TV user manual for more information.

Use ▲▼ keys to select one of the options and press **OK** to confirm.

{ **On** } – Select to enable progressive scan feature.

{ **Off** } – Select to enable interlaced feature.

TV System

The colour system that matches the connected TV. Only then will it be possible to play a DVD on this recorder.

Use ▲▼ keys to select one of the options and press **OK** to confirm.

{ **AUTO** } – Select this to automatically change the video signal of an NTSC disc and output it to its format.

{ **NTSC** } – Select this if the connected TV set has the NTSC colour system. It will change the video signal of a PAL disc and output it to NTSC format.

{ **PAL** } – Select this if the connected TV set has the PAL colour system. It will change the video signal of an NTSC disc and output it to PAL format.

1_dvdr3460-97_um_en_26851a.indd 45 2007-08-27 1:04:36 PM

System Menu Options (continued)

Audio settings (underlined options are the factory default settings)

Downmix

Select the method for audio downmix to two channels when you play a DVD which is recorded in Dolby Digital format.

{ **LT/RT** } – Select this if the recorder is connected to a Dolby Pro Logic decoder.

{ **Stereo** } – Select this to downmix the multi-channel audio signals to two channels which delivers sound from only the two front speakers.

Digital Output

This setting is only required if you are using the recorder's coaxial jack to connect other audio/video device.

{ **PCM** } – Select this if the connected device is not capable of decoding multi-channel audio. The system will convert the Dolby Digital and MPEG-2 multi-channel signals to PCM (Pulse Code Modulation).

{ **Automatic** } – The audio signals will be output according to the audio stream on disc.

Night Mode

This mode optimizes playback of sound at low volume. High volume outputs will be softened and low volume outputs are brought upward to an audible level.

{ **On** } – Turn on night mode.

{ **Off** } – Turn off night mode feature. Selects this to enjoy surround sound with its full dynamic range.

1_dvdr3460-97_um_en_26851a.indd 46 2007-08-27 1:04:36 PM

System settings (underlined options are the factory default settings)

Menu Language

Select the menu language for this recorder on-screen display.

Clock Setting

Set the date and time. Use ▲▼ keys or the numeric keypad 0-9 to change the number. Use ◀▶ keys to select the entry field, . Press **OK** to confirm.

Clock Mode

Set the clock format. Use ▲▼ keys to select the preferred option, then press **OK** to confirm.

{ **12Hour** } – Select this to display 12 hour time format.

{ **24Hour** } – Select this to display 24 hour time format.

Screen Saver

The screen saver prevents damage to the TV screen by avoiding exposure to a static image for too long.

{ **On** } – Switch to TV screen saver mode when playback has been stopped or paused for more than 15 minutes.

{ **Off** } – Turn off the screen saver function.

Restore Default

Restore all the settings of this recorder, except for the password, parental level setting and timer programming.

1) Press **OK** to confirm the default restore.
2) A warning message will appear. Select { **OK** } in the menu to proceed or { **Cancel** } to abort, then press **OK** to confirm.

1_dvdr3460-97_um_en_26851a.indd 47 2007-08-27 1:04:37 PM

English

Software Upgrade

Installing the latest software

The software installed in your recorder is continuously being refined for greater stability and compatibility of the set. Periodically, Philips will issue upgrades for the software which you copy onto a CD to install the software.

Caution! Power supply must not be interrupted during upgrade!

- Visit Philips' website at 'www.philips.com/welcome' to check for the availability of the latest software upgrade.

  Note: When checking for the latest software upgrade, please also check for any accompanying instructions on installing the software.

1_dvdr3460-97_um_en_26851a.indd 48 2007-08-27 1:04:37 PM

WARNING
Under no circumstances should you try to repair the system yourself, as this will invalidate the warranty. Do not open the system as there is a risk of electric shock.

If a fault occurs, first check the points listed below before taking the system for repair. If you are unable to remedy a problem by following these hints, consult your dealer or Philips for help.

Problem (General)	Solution
No power.	– Press STANDBY-ON button on the front of the recorder to switch on the system. – Make sure the AC outlet has power.
Remote control does not work.	– Aim the remote control directly at the sensor on the front of the DVD recorder (not towards TV). – Remove any obstacles between the recorder and the remote control. – Batteries are weak, replace the batteries.
No picture.	– Turn on your TV and set to the correct Video In channel. Switch the TV channel until you see the DVD screen. Read chapter "Step 3 - Installation and Setup – Finding the correct viewing channel" for details. – Check the video connection between the recorder and the TV. – Your DVD recorder might have been set to Progressive Scan mode while your TV does not support Progressive Scan. Follow the steps below: 1) Connect the supplied AV cable (red/white/yellow) from the CVBS OUT jacks on the rear panel of the DVD recorder to the TV's Video In and Audio In jacks. 2) Turn on the TV and use the TV's remote control to select the corresponding video-in channel on the TV. (eg., AV, EXT1, EXT2). 3) Turn on the DVD recorder and wait until the TV displays the recorder screen. Turn off Progressive Scan using the system menu. Read "System Menu Options – Video Settings – Progressive Scan".
No sound.	– Check the audio connections, the red and white jacks. Read chapters "Step 1 : Basic Recorder Connections - Connecting the audio cables" for details. – Set the Digital output correctly, based on the device you have connected to the recorder. Read chapter "System Menu Options - Audio settings – Digital Output" for details.

1_dvdr3460-97_um_en_26851a.indd 49 2007-08-27 1:04:37 PM

Troubleshooting (continued)

Problem	Solution
No TV signal received from the recorder.	– Have your antenna or cable TV signal checked. – Install the TV channel. Read chapter "System Menu Options – Tuner Settings" for details.
A TV channel installed during the DVD recorder's automatic TV channel search is fuzzy or distorted.	– Check the video connection between the DVD recorder and the TV. – You can further fine-tune the signal of the TV channel. Read chapter on "System Menu Options – Tuner Settings".
Unable to eject tray.	– Exit from any on-screen menu. – Press STOP to stop any playback or recording, then press OPEN/CLOSE on the set.
Disc does not play.	– Insert the disc with the label facing up. – Wrong region code. The DVD must be coded for ALL regions or Region 3 or 4 in order to be played back on this DVD recorder. – There is no recording on the disc or wrong disc type. Read chapter "Playback - Playable discs" for details. – Make sure the disc is not scratched or warped. Clean the disc or replace a new one. – Check if the disc is defective by trying another disc.
Distorted sound coming from a connected hi-fi system or amplifier.	– Do not connect any cables from the recorder to the 'Phono' input of your amplifier. – If you are playing a DTS CD, you have to connect the COAXIAL jack of this recorder to a Hi-Fi system or amplifier.
Unable to play DivX movies.	– Check that the DivX file is encoded according to the 'Home Theatre Profile' mode with DivX encoder. – Check that the DivX movie downloaded is a complete file.
The picture is distorted or black and white during playback.	– The disc does not match with the TV colour system standard (PAL/NTSC). – The disc is dirty, clean the disc. – Sometimes a small amount of picture distortion may appear. This is not a malfunction.

1_dvdr3460-97_um_en_26851a.indd 50 2007-08-27 1:04:37 PM

Problem	Solution
A DVD±R/±RW recorded on this DVD recorder does not play on a DVD player.	– If a recording is too short, it is possible that a DVD player cannot detect it. Please observe the following 'minimum recording times'. Recording mode : {HQ} – 5 mins, {SP} – 10 mins, {LP} - 15 mins, {EP} – 20 mins, {SLP} – 30 mins. – You have to finalize the DVD±R. Read chapter "System Menu Options - Disc settings - Finalize" for details.
There is picture or sound interference with the TV reception.	– Have your antenna or cable TV signal checked. – Fine-tune your TV channel. Read chapter "System Menu Options – Tuner Settings" for details.
The message 'UNKNOWN DISC' appears.	– This message may appear if you insert a disc that may have encountered one of the following: – Error during recording: The title may be missing. – Error while finalizing or the disc has not been finalized.
Picture is fuzzy and brightness varies when copying DVD Video discs or prerecorded video cassettes.	– This happens if you try to copy DVDs or video cassettes that have been copy-protected. Even though the picture on the TV is fine, but the recording on the DVD recordable disc is faulty. This interference is unavoidable with copy-protected DVDs or video cassettes. – The DVD recordable disc has a limited recording lifetime, please change a new disc for recording.
Recordings are not occurring as scheduled. New recordings cannot be made.	– The TV channel you want to record is not stored or you selected the wrong program number. Check the TV channels stored on the recorder. – You have to reset the timer recording after adjusting the clock setting. – You cannot use the recorder to duplicate copy-protected materials (DVDs or videotapes) onto a DVD recordable disc.

1_dvdr3460-97_um_en_26851a.indd 51 2007-08-27 1:04:37 PM

Frequently Asked Questions

What kind of disc should I use for recording?

You can record on both DVD±R and DVD±RW discs. They are compatible with DVD-Video players and DVD-ROM drives in computers.

What is the capacity of a DVD±R/±RW disc?

4.7GB, or equivalent to six CDs. You can store only one hour of recordings on a single disc at the highest quality (DVD standard) and about 6 hours recordings at the lowest quality (VHS standard).

What is the difference between DVD±R and DVD±RW?

DVD±R is "recordable" and DVD±RW is "rewritable". With a DVD±R, you can record multiple sessions on the same disc, but when the disc is full, you cannot record any more on the disc. The DVD±RW allows you to record over the same disc repeatedly.

What is DV?

Using DV, also known as i.LINK, you can connect a DV-equipped camcorder to this recorder using a single DV cable for input and output of audio, video, data and control signals.

– This recorder is only compatible with DV-format (DVC-SD) camcorders. Digital satellite tuners and Digital VHS video recorders are not compatible.

– You cannot connect more than one DV camcorder at a time to this recorder.

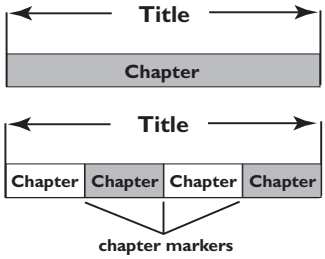
– You cannot control this recorder from external equipment connected via the DV IN jack.

Can I copy a VHS tape or DVD from an external player?

Yes, but only if the VHS tape or DVD is not copy protected.

What are Titles and Chapters?

A DVD disc contains Titles and Chapters, which are similar to the Titles and Chapters of a book. A Title is often a complete movie and is broken down into Chapters, or individual scenes from the movies.



Programs are recorded as a single title, it may consist of one chapter or a few chapters within a title, depending on the recording settings.

How do I set up Titles?

The recorder automatically creates a new Title every time you start a new recording.

What does "finalizing" a disc do?

Finalizing a disc locks the disc so it can no longer be used for recording. This is only required for DVD±R discs. It will then be compatible with virtually any DVD player. To remove a disc without finalizing it, simply stop recording and eject the disc. You will still be able to record on the disc if there is storage space for more recordings.

How good is the quality of the recording?

There are a few quality levels to choose from, ranging from "HQ" - High Quality (1 hour mode) to "SLP" - Super Long Play (6 hours mode). Press the **REC MODE** key on the remote control to choose the quality level that best suits your purpose and the length of material.

Record Mode	Picture Quality	Maximum Recording Time per Disc (hours)
HQ	High Quality	1
SP	Standard Play	2
LP	Long Play	3
EP	Extended Play	4
SLP	Super Long Play	6

1_dvdr3460-97_um_en_26851a.indd 52 2007-08-27 1:04:37 PM

Picture/Display
- Aspect ratio: 4:3, 16:9
- D/A converter: 10 bit, 54 MHz
- A/D converter: 10 bit, 27 MHz
- Picture enhancement: Progressive Scan

Sound
- D/A converter: 24 bit, 192 kHz
- A/D converter: 24 bit, 96 kHz
- Signal to noise ratio: 102
- Crosstalk (1kHz): 105 dB
- Dynamic Range (1kHz): 90 dB

Video Recording
- Recording system: NTSC/ PAL
- Compression formats: MPEG2

High Quality	: HQ (1HR)
Standard Play	: SP (2HR)
Long Play	: LP (3HR)
Extended Play	: EP (4HR)
Super Long Play	: SLP (6HR)

- Audio compression: Dolby Digital, PCM

Video Playback
- Disc playback media: CD, CD-R/-RW, DVD, DVD-Video, DVD+R/+RW, DVD-R/-RW SVCD, Video CD, DVD+R DL, DVD-R DL
- Compression formats: MPEG2, MPEG1,DivX
- Video disc playback system: PAL, NTSC

Audio Playback
- Disc playback media: CD, CD-R/-RW, MP3-CD, MP3-DVD
- Compression formats: Dolby Digital, MP3, MPEG2 Multichannel, PCM
- MP3 bit rates: 32~256 kbps and VBR

Still Picture Playback
- Disc formats: DVD+R/+RW, DVD-R/-RW, DVD+R DL, DVD-R DL, Picture CD
- Picture compression formats: JPEG
- Picture enhancement: Rotate, Zoom

Storage Media
- Recording media: DVD+R, DVD+RW, DVD-R, DVD-RW, DVD+R DL, DVD-R DL

Tuner/Reception/Transmission
- TV system: PAL
- Aerial Input: 75 Ohm coaxial (IEC75)

Connectivity
Rear Connections:
- Component Video (YPbPr) Out
- S-Video In
- S-Video Out
- Composite video (CVBS) In
- Composite video (CVBS) Out
- Audio left/right In
- Audio left/right Out
- Digital audio out (coaxial)
- RF antenna in
- RF TV out
- Mains

Front Connections:
- i.LINK DV in (IEEE 1394 4-pin)
- Video In (CAM)
- Audio left/right In

Convenience
- Programming/Timer Enhancements: Daily/Weekly, Repeat Program, Manual Timer, One Touch Recording
- Programmable events: 8

Power
- Power supply: 110 – 240V; 50 – 60 Hz
- Consumption: 20 W (typical)
- Standby power consumption: < 3W

Cabinet
- Dimensions (W x H x D) : 360 x 43 x 322 mm
- Net Weight : 3 kg

1_dvdr3460-97_um_en_26851a.indd 53 2007-08-27 1:04:37 PM

Display panel symbols/ messages

The following symbols/ messages may appear on your recorder display:

- 00 : 00 : 00
  Multifunction display/ text line
  – Title/ track number
  – Total/ elasped/remaining title/track time
  – Additional information regarding the disc
  – TV channel number or source of video
  – Clock (This is displayed in Standby mode).
  – TV program title

- TIMER
  A timer recording has been programmed or is active.

- FULL
  Disc is full. There is no storage space for new recordings.

- READING
  Disc is being recognized by the recorder.

- NO DISC
  No disc has been inserted. If a disc has been inserted, then it is possible that the disc cannot be read.

- OPEN
  Disc tray is opening or opened.

- PHILIPS
  The recorder has been turned on.

- REG ERR
  When the DVD inserted is in a wrong region code as the recorder.

- STOP
  When playback / recording is stopped.

- BUSY
  The recorder is writing to the disc.

- UNKNOWN
  The recorder has encountered an error in handling the disc inserted.

1_dvdr3460-97_um_en_26851a.indd 54 2007-08-27 1:04:37 PM

Analogue: Sound that has not been turned into numbers. Analogue sound varies, while digital sound has specific numerical values. These jacks send audio through two channels, the left and right.

Aspect ratio: The ratio of vertical and horizontal sizes of a displayed image. The horizontal vs. vertical ratio of conventional TVs. is 4:3, and that of wide-screens is 16:9.

AUDIO OUT jacks: Red and white jacks on the back of the system that send audio to another system (TV, Stereo, etc).

Chapter: Sections of a picture or a music piece on a DVD that are smaller than titles. A title is composed of several chapters. Each chapter is assigned a chapter number enabling you to locate the chapter you want.

Digital: Sound that has been converted into numerical values. Digital sound is available when you use the DIGITAL AUDIO OUT COAXIAL. These jacks send audio through multiple channels, instead of just two channels as analogue does.

Disc menu: A screen display prepared for allowing selection of images, sounds, subtitles, multi-angles, etc recorded on a DVD.

DivX: The DivX code is a patent pending, MPEG-4 based video compression technology, developed by DivX Inc., that can shrink digital video to sizes small enough to be transported over the internet, while maintaining high visual quality.

Dolby Digital: A surround sound system developed by Dolby Laboratories containing up to six channels of digital audio (front left and right, surround left and right, centre and subwoofer).

JPEG: A very common digital still picture format. A still-picture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio.

MP3: A file format with a sound data compression system. "MP3" is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. By using the MP3 format, one CD-R or CD-RW can contain about 10 times more data then a regular CD.

MPEG: Motion Picture Experts Group. A collection of compression systems for digital audio and video.

Multichannel: DVDs are formatted to have each sound track constitute one sound field. Multichannel refers to a structure of sound tracks having three or more channels.

PBC: Playback Control. Refers to the signal recorded on video CDs or SVCDs for controlling playback. By using menu screens recorded on a Video CD or SVCD that supports PBC, you can enjoy interactive playback and searching.

PCM: Pulse Code Modulation. A digital audio encoding system.

Region code: A system allowing discs to be played only in the region designated. This unit will only play discs that have compatible region codes. You can find the region code of your unit by looking on the product label. Some discs are compatible with more than one region (or ALL regions).

S-Video: Produces a clear picture by sending separate signals for the luminance and the colour. You can use S-Video only if your TV has an S-Video In jack.

Surround: A system for creating realistic three dimensional sound fields full of realism by arranging multiple speakers around the listener.

Title: The longest section of a movie or music feature on DVD. Each title is assigned a title number, enabling you to locate the title you want.

VIDEO OUT jack: Yellow jack that sends the DVD picture video to a TV.

1_dvdr3460-97_um_en_26851a.indd 55 2007-08-27 1:04:37 PM